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DATE	DRMATION DISCLOSURE	Application Number	Unassigned	
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STA	TEMENT BY APPLICANT	First Named Inventor	Ryan D. BRUNEAU et al.	
6	ise as many sheets as necessary)	Group Art Unit	Unassigned	
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Sheet	1 of 7	Attorney Docket Number	IMMR-069/01US	

			U.S. P.	ATENT DOCUMENTS	
Examiner Initials*	Cite No.1	U.S. Patent Do	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cite Document MM-DD-YYY
JL/	 	6 210 024	1	Pil. I	0.4/15/0001
/ UILI	A1 A2	6,219,034	 	Elbing et al.	04/17/2001
		6,211,861		Rosenberg et al.	04/03/2001
	A3	6,184,868		Shahoian et al.	02/06/2001
	A4	6,128,006	+	Rosenberg et al.	10/03/2000
	A5	6,100,874	 	Schena et al.	08/08/2000
+	A6	6,088,019	-	Rosenberg	07/11/2000_
+	A7	6,088,017	. 	Tremblay et al.	07/11/2000
	A8	6,078,308	↓	Rosenberg et al.	06/20/2000
	A9	6,061,004	<u>.</u>	Rosenberg	05/09/2000
	A10	6,046,726		Keyson	04/04/2000
	All	6,028,593	_	Rosenberg et al.	02/22/2000
	A12	6,020,876	<u> </u>	Rosenberg et al.	02/01/2000
	A13	6,005,551		Osborne et al.	12/21/1999
	A14	6,004,134		Marcus et al.	12/21/1999
	A15	6,001,014		Ogata et al.	12/14/1999
	A16	5,990,869		Kubica et al.	11/23/1999
	A17	5,986,643		Harvill et al.	11/16/1999
	A18	5,984,880		Lander et al.	11/16/1999
	A19	5,973,689		Gallery	10/26/1999
	A20	5,973,670		Barber et al.	10/26/1999
	A21	5,959,613		Rosenberg et al.	09/28/1999
	A22	5,956,484		Rosenberg et al.	09/21/1999
	A23	5,956,016		Kuenzner et al.	09/21/1999
	A24	5,944,151		Jakobs et al.	08/31/1999
1	A25	5,914,705		Johnson et al.	05/22/1999
	A26	5,897,437		Nishiumi et al.	04/27/1999
	A27	5,889,672		Schuler et al.	03/30/1999
	A28	5,880,714	1	Rosenberg et al.	03/09/1999
	A29	5,857,986		Moriyasu	01/12/1999
	A30	5,844,392		Peurach et al.	12/01/1998
	A31	5,825,308	†	Rosenberg	10/20/1998
	A32	5,802,353		Avila et al.	09/01/1998
	A33	5,790,108		Salcudean et al.	08/14/1998
	A34	5,785,630		Bobick, et al.	07/28/1998
	A35	5,784,052	†	Keyson	07/21/1998
	A36	5,781,172	 	Engel et al.	07/14/1998
	A37	5,766,016	 	Sinclair et al.	06/16/1998
T	A38	5,755,577	 	Gillio	05/26/1998
1	A39	5,754,023	 	Roston et al.	05/19/1998
┪	A40	5,742,278	 	Chen et al.	03/19/1998
 	A41	5,736,978	 	Hasser et al.	04/07/1998
	A42	5,734,373	 		
/ 11/	A43	5,724,106	 	Rosenberg et al. Autry et al.	03/31/1998 03/03/1998

¹ Unique citation designation number.
² See attached Kinds of U.S. Patent Documents.

Examiner		Date	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 7

	Complete if Known
Application Number	Unassigned
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First Named Inventor	Ryan D. BRUNEAU et al.
Group Art Unit	Unassigned .
Examiner Name	Unassigned
Attorney Docket Number	IMMR-069/01US

		U	LS. PATENT DOCUMENTS	
/JL/_	A44	5,714,978	Yamanaka et al.	02/03/1998
	A45	5,709,219	Chen et al.	01/20/1998
	A46	5,696,537	Solhjell	12/09/1997
	A47	5,694,013	Stewart et al.	12/02/1997
	A48	5,691,898	Rosenberg et al.	11/25/1997
	A49	5,691,747	Amano	11/25/1997 ·
	A50	5,684,722	Thorner et al.	11/04/1997
	A51	5,669,818	Thorner et al.	09/23/1997
	A52	5,666,473	Wallace	09/09/1997
	A53	5,666,138	Culver	09/09/1997
	A54	5,643,087	Marcus et al.	07/01/1997
	A55	5,642,469	Hannaford et al.	06/24/1997
	A56	5,629,594	Jacobus et al.	05/13/1997
i	A57	5,625,576	Massie et al.	04/29/1997
	A58	5,589,854	Tsai	12/31/1996
	A59	5,589,828	Armstrong	12/31/1996
	A60	5,583,478	Renzi	12/10/1996
_	A61	5,565,840	Thorner et al.	10/15/1996
1	A62	5,550,562	Aoki et al.	08/27/1996
- 	A63	5,547,382	Yamasaki et al.	08/20/1996
-	A64	5,543,821		
	A65	5,542,672	Marchis et al.	08/06/1996
	A66	5,530,455	Meredith	08/06/1996
	A67	5,513,100	Gillick et al.	06/25/1996
	A68		Parker et al.	04/30/1996
+-	A69	5,512,919	Araki	04/30/1996
	A70	5,491,477	Clark et al.	02/13/1996
		5,477,237	Parks	12/19/1995
-	A71	5,473,344	Bacon et al.	12/05/1995
	A72	5,466,213	Hogan et al.	11/14/1995
-	A73	5,457,479	Cheng	10/10/1995
+-	A74	5,451,924	Massimino et al.	09/19/1995
	A75	5,414,337	Schuler	05/09/1995
_	A76	5,405,152	Katanics et al.	04/11/1995
	A77	5,399,091	Misumoto	03/21/1995
	A78	5,388,992	Franklin et al.	02/14/1995
	A79	5,374,942	Gilligan et al.	12/20/1994
	A80	5,355,148	Anderson	10/11/1994
	A81	5,354,162	Burdea et al.	10/11/1994
	A82	5,334,027	Wherlock	08/02/1994
	A83	5,317,336	Hall	05/31/1994
	A84	5,313,230	Vernolia et al.	05/17/1994
	A85	5,309,140	Everett, Jr., et al.	05/03/1994
	A86	5,299,810	Pierce et al.	04/05/1994
	A87	5,296,871	Paley	03/22/1994
	A88	5,280,276	Kwok	01/18/1994
	A89	5,275,174	Cook	01/04/1994
	A90	5,271,290	Fischer	12/21/1993
	A91	5,240,417	Smithson et al.	08/31/1993
	A92	5,235,868	Culver	08/17/1993
	A93	5,220,260	Schuler	06/15/1993
7	A94	5,212,473	Louis	05/18/1993
1.11.7	A95	5,203,563	Loper, III	04/20/1993

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Sheet 3 of 7

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First Named Inventor	Ryan D. BRUNEAU et al.				
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Attorney Docket Number	IMMR-069/01US				

ΠT	A96	5,189,355	Larkins et al.	02/23/1993
<u>f</u>	A97	5,186,629	Rohen	02/16/1993
	A98	5,185,561	Good et al.	02/09/1993
	A99	5,184,319	Kramer	02/02/1993
	A100	5,146,566	Hollis, Jr. et al.	09/08/1992
	A101	5,116,180	Fung et al.	05/26/1992
	A102	5,107,262	Cadoz et al.	04/21/1992
	A103	5,095,303	Clark et al.	03/10/1992
	A104	5,086,296	Clark	02/04/1992
	A105	5,078,152	Bond et al.	01/07/1992
	A106	5,044,956	Behensky et al.	09/03/1991
	A107	5,038,089	Szakaly	08/06/1991
	A108	5,035,242	Franklin et al.	07/30/1991
	A109	5,022,407	Horch et al.	06/11/1991
	A110	5,019,761	Kraft	05/28/1991
	A111	4,983,901	Lehmer	01/08/1991
	A112	4,949,119	Moncrief et al.	08/14/1990
	A113	4,934,694	McIntosh	06/19/1990
	A114	4,930,770	Baker	06/05/1990
	A115	4,896,554	Culver	01/30/1990
	A116	4,891,764	McIntosh	01/02/1990
	A117	4,868,549	Affinito et al.	09/19/1989
	A118	4,795,296	Jau	01/03/1989
	A119	4,794,392	Selinko	12/27/1988
	A120	4,787,051	Olson	11/22/1988
	A121	4,731,603	McRae et al.	. 03/15/1988
	A122	4,713,007	Alban	12/15/1987
	A123	4,708,656	de Vries et al.	11/24/1987
	A124	4,604,016	Joyce	08/05/1986
	A125	4,599,070	Hladky et al.	07/08/1986
	A126	4,581,491	Boothroyd	04/08/1986
	A127	4,513,235	Acklam et al.	04/23/1985
	A128	4,414,984	Zarudiansky	11/15/1983
	A129	4,236,325	Hall et al.	12/02/1980
	A130	4, 160,508	Salisbury, Jr.	07/10/1979
	A131	3,919,691	Noll	11/11/1975
	A132	3,911,416	Feder	10/07/1975
	A133	3,903,614	Diamond et al.	09/09/1975
	A134	3,902,687	Hightower	09/02/1975
	A135	3,623,064	Kagan	11/23/1971
	A136	3,517,446	Corlyon et al.	06/30/1970
	A137	3,497,668	Hirsch	02/24/1970
y	A138	3,220,121	Cutler	11/30/1965
7.11	A139	3,157,853	Hirsch	11/17/1964

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		-		FOREIGN	PATENT DOCUMENTS		
Examiner Initials*	Cite No. ¹				Date of Publication		
		Office ¹	Number ²	Kind Code ³ (if known)	Name of Patentee or Applicant of Cited Document	of Cited Document MM-DD-YYYY	T ⁴
C. 127 70101 V	HOUR		0 349 086	A1	Stork Kwant B.V.	01/03/1990	
745	B2		0 265 011	A1		04/27/1988	
	B3		0 607 580	Al		07/27/1994	
	B4		0 626 634	A2		11/30/1994	
	B5	·	WO 92/00559		· ·	01/09/1992	
	B6	· ·	WO 97/31333			08/28/1997	
	B7	'	WO 00/03319			01/20/2000	-
	B8	,	WO 95/20788			08/03/1995	
	B9	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	WO 97/21160			06/12/1997	
	B10		WO 00/21071			04/13/2000	
	B11		0085518	A1		02/21/1983	
	B12		875819	·		04/11/1998	
	B13	'	WO 95/12188			05/04/1995	
/JL/	B14		S62-194389			12/10/1997	

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
J.L.	CI	Baigrie, "Electric Control Loading - A Low Cost, High Performance Alternative," Proceedings of Interservice/Industry Training Systems Conference, pp. 247-254, November 6-8, 1990	
	C2	Iwata, "Pen-based Haptic Virtual Environment," 0-7803-1363-1/93 IEEE, pp. 287-292, 1993	
	C3	Russo, "The Design and Implementation of a Three Degree of Freedom Force Output Joystick," MIT Libraries Archives pp. 1-131, May 1990, archived 8/14/90	
_	C4	Brooks et al., "Hand Controllers for Teleoperation - A State-of-the-Art Technology Survey and Evaluation," JPL Publication 85-11, NASA-CR-175890; N85-28559, pp. 1-84, 03/1/1985	
	C5	Jones et al., "A perceptual analysis of stiffness," ISSN 0014-4819 Springer International (Springer-Verlag); Experimental Brain Research, Vol. 79, No. 1, pp. 150-156, 1990	
:	C6	Burdea et al., "Distributed Virtual Force Feedback, Lecture Notes for Workshop on Force Display in Virtual Environments and its Application to Robotic Teleoperation," 1993 IEEE International Conference on Robotics and Automation, pp. 25-44, 05/02/1993	
	C7	Snow et al., 'Model-X Force-Reflecting-Hand-Controller," NT Control No. NPO-17851; JPL Case No. 7348, pp. 1-4 with 45 pages of attachments, 06/15/1989	
	C8	Ouh-Young, "Force Display in Molecular Docking," Doctoral Dissertation, University of North Carolina at Chapel Hill, UMI Order No. 9034744, p. 1-369, 1990	
	C9	Tadros, "Control System Design for a Three Degree of Freedom Virtual Environment Simulator Using Motor/Brake Pair Actuators," MIT Archive, pp. 1-88, February 1990, archived 8/13/90	
	C10	Caldwell et al., "Enhanced Tactile Feedback (Tele-Taction) Using a Multi-Functional Sensory System," 1050-4729/93, pp. 955-960, 1993	
	C11	Adelstein et al., "Design and Implementation of a Force Reflecting Manipulandum for Manual Control research," DSC-Vol. 42, Advances in Robotics, pp. 1-12, 1992	
/JL/	C12		

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³ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

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Sheet	5 of 7	Attorney Docket Number	IMMR-069/01US	•

		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS
/JL/	C13	Stanley et al., "Computer Simulation of Interacting Dynamic Mechanical Systems Using Distributed Memory Parallel' Processors," DSC-Vol. 42, Advances in Robotics, pp. 55-61, ASME 1992
	C14	Russo, "Controlling Dissipative Magnetic Particle Brakes in Force Reflective Devices," DSC-Vol. 42, Advances in Robotics, pp. 63-70, ASME 1992
	C15	Kontarinis et al., "Display of High-Frequency Tactile Information to Teleoperators," Telemanipulator Technology and Space Telerobotics, Won S. Kim, Editor, Proc. SPIE Vol. 2057, pp. 40-50, Sep. 7-9, 1993
	C16	Patrick et al., "Design and Testing of A Non-reactive, Fingertip, Tactile Display for Interaction with Remote Environments," Cooperative Intelligent Robotics in Space, Rui J. deFigueiredo et al, Editor, Proc. SPIE Vol. 1387, pp. 215-222, 1990
	C17	Adelstein, "A Virtual Environment System For The Study of Human Arm Tremor," Ph.D. Dissertation, Dept. of Mechanical Engineering, MIT, June 1989, archived 3/13/90
	C18	Bejczy, "Sensors, Controls, and Man-Machine Interface for Advanced Teleoperation," Science, Vol. 208, No. 4450, pp. 1327-1335, 1980
	C19	Bejczy et al., "Generalization of Bilateral Force-Reflecting Control of Manipulators," Proceedings Of Fourth CISM- IFTOMM, Sep. 8-12, 1981
	C20	McAffee et al., "Teleoperator Subsystem/Telerobot Demonstrator: Force Reflecting Hand Controller Equipment Manual," JPL 1988, JPL D-5172
	C21	Minsky, "Computational Haptics: The Sandpaper System for Synthesizing Texture for a Force-Feedback Display," Ph.D. Dissertation, MIT, June 1995, archived 7/6/95
	C22	Jacobsen et al., "High Performance, Dextrous Telerobotic Manipulator With Force Reflection," Intervention/ROV '91 Conference & Exposition, Hollywood, Florida, May 21-23, 1991
	C23	Shimoga, "Finger Force and Touch Feedback Issues in Dexterous Telemanipulation," Proceedings of Fourth Annual Conference on Intelligent Robotic Systems for Space Exploration, Rensselaer Polytechnic Institute, Sep. 30- Oct. 1, 1992
	C24	IBM Technical Disclosure Bulletin, "Mouse Ball-Actuating Device With Force and Tactile Feedback," Vol. 32, No. 9B, February 1990
	C25	Terry et al., "Tactile Feedback In A Computer Mouse," Proceedings of Fourteenth Annual Northeast Bioengineering Conference, University of New Hampshire, March 10-11, 1988
	C26	Howe, "A Force-Reflecting Teleoperated Hand System for the Study of Tactile Sensing in Precision Manipulation," Proceedings of the 1992 IEEE International Conference on Robotics and Automation, Nice, France, May 1992
	C27	Eberhardt et al., "OMAR - A Haptic display for speech perception by deaf and deaf-blind individuals," IEEE Virtual Reality Annual International Symposium, Seattle, WA, Sep. 18-22, 1993
	C28	Rabinowitz et al., "Multidimensional tactile displays: Identification of vibratory intensity, frequency, and contractor area," Journal of The Acoustical Society of America, Vol. 82, No. 4, October 1987
	C29	Bejczy et al., "Kinesthetic Coupling Between Operator and Remote Manipulator," International Computer Technology Conference, The American Society of Mechanical Engineers, San Francisco, CA, August 12-15, 1980
	C30	Bejezy et al., "A Laboratory Breadboard System For Dual-Arm Teleoperation," SOAR '89 Workshop, JSC, Houston, TX, July 25-27, 1989
	C31	Oubyoung et al., "A Low-Cost Force Feedback Joystick and Its Use in PC Video Games," <i>IEEE Transactions on Consumer Electronics</i> , Vol. 41, No. 3, August 1995
	C32	Marcus, "Touch Feedback in Surgery," Proceedings of Virtual Reality and Medicine The Cutting Edge, Sep. 8-11, 1994
	C33	Bejezy, et al., "Universal Computer Control System (UCCS) For Space Telerobots," CH2413-3/87/0000/0318501.00 1987 IEEE, 1987
	C34	Hasser, C., "Tactile Feedback For a Force-Reflecting Haptic Display," School of Engineering, Univ. of Dayton, Dec. 1995
	C35	Hasser, C. et al., "Tactile Feedback With Adaptive Controller for a Force-Reflecting Haptic Display - Part 1: Design," IEEE 0-7803-3131, Jan. 1996
		Dennerlein, Jack T. et al., "Vibrotactile Feedback for Industrial Telemanipulators," 6th Ann. Symposium on Haptic Interfaces for Virtual Environment and Teleoperator Systems, ASME IMECE, Nov. 1997
	C37	Akamatsu, M. et al., "Multimodal Mouse: A Mouse-Type Device With Tactile and Force Display," Presence, Vol. 3, No. 4, Winter 1994, pp. 73-80
	C38	Kelley, A.J. et al., "MagicMouse: Tactile and Kinesthetic Feedback in the Human-Computer Interface Using an Electromagnetically Actuated Input/Output Device," Dept. of Elec. Eng., Univ. of British Columbia, Oct. 1993, pp. 1-27
	C39	Ramstein, C., "Combining Haptic and Braille Technologies: Design Issues and Pilot Study" ACM 0-89791-776 Jun. 1996, pp. 37-44
	C40	Payette, J. et al., "Evaluation of a Force Feedback (Haptic) Computer Pointing Device in Zero Gravity," DSC-Vol. 58, Proc. of ASME Dynamics Systems and Control Division, ASME 1996, pp. 547-553

Examiner		Date	
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		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS
	C41	Wiker, S. et al., "Development of Tactile Mice for Blind Access to Computers: Importance of Stimulation Locus, Object
/JL/		Size and Vibrotactile Display Resolution," Proc. of Human Factors Society 35th Annual Meeting 1991, pp. 708-712
	C42	Buttolo et al., "Pen-Based Force Display for Precision Manipulation in Virtual Environments," 0-8186-7084 IEEE Mar. 1995, pp. 217-224
	C43	Rosenberg et al., "The Use of Force Feedback to Enhance Graphical User Interfaces," Stereoscopic Displays & Virtual Reality Systems III (1996), Proc. SPIE 2653, pp. 243-248
	C44	Schmult et al., "Application Areas for A Force-Feedback Joystick," DSC-Vol. 49, Advances in Robotics, Mechatronics, and Haptic Interfaces, ASME 1993, pp. 47-54
	C45	Ellis, et al., "Design and Evaluation of a High-Performance Prototype Planar Haptic Interface," DSC-Vol. 49, Advances in Robotics, Mechatronics, and Haptic Interfaces, ASME Dec. 1993, pp. 55-65
	C46	Hannaford et al., "Force-Feedback Cursor Control," NASA Tech Brief, Vol. 13, No. 11, Item #21, Jet Propulsion Lab., Nov. 1989
	C47	Kelley et al., "On the Development of a Force-Feedback Mouse and Its Integration Into a Graphical User Interface," Symp. On Haptic Interfaces for Virtual Envir. And Teleoperator Systems, 1994 Int'l Mech. Eng. Congress and Exhibition, Nov. 1994
	C48	Iwata, H., "Artificial Reality with Force-Feedback: Development of Desktop Virtual Space with Compact Master Manipulator," Computer Graphics, Vol. 24, No. 4, Aug. 1990, pp. 165-170
	C49	Ramstein et al., "The Pantograph: A Large Workspace Haptic Device for a Multimodal Human-Computer Interaction," Computer-Human Interaction, CHI '94
	C50	Rosenberg et al., "Commercially Viable Force Feedback Controller for Individuals with Neuromotor Disabilities," USAF Armstrong Lab., May 1996
	C51	Su et al., "The Virtual Panel Architecture: A 3D Gesture Framework," Computer Science Depts., Univ. of Maryland, Texas A&M Univ., Jan. 1993
	C52	Adachl et al., "Sensory Evaluation of Virtual Haptic Push-Buttons," Technical Research Center, Suzuki Motor Corp., 1994
	C53	Rosenberg, L., "A Force Feedback Programming Primer – For PC Gaming Peripherals Supporting I-Force 2.0 and Direct – X 5.0," Immersion Corporation, 1997, pgs. 1-176
	C54	Munch et al., "Intelligent Control of Haptic Displays," Eurographics '96, Vol. 15, No. 3, 1996, pgs. 217-226
	C55	Brooks, Jr. et al., "Project GROPE, Haptic Displays for Scientific Visualization," Computer Graphics, Vol. 24, #4, 1990, pgs. 177-184
	C56	Batter et al., "Grope-1: A Computer Display to the Sense of Feel," Proc. IFIP Congress, 1971, pgs. 759-763
	C57	Gotow et al., "Perception of Mechanical Properties at the Man-Machine Interface," IEEE CH2503-1, 1987, pgs 688-690
	C58	Howe et al., "Task Performance w/ a dextrous Teleoperated Hand System," Proc. of SPIE, Vol. 1833, 1992, pgs. 1-9
	C59	Atkinson et al, "Computing with Feeling," Comput. & Graphics, Vol. 2, 1977, pgs. 97-103
	C60	Minsky et al., "Feeling & Seeing: Issues in Force Display," ACM089791-351-5, 1990, pgs. 235-242, 270
<u> </u>	C61	Adelstein et al., "Design & Implementation of a Force Reflecting Manipulandum for Manual Control Research," 1992, NASA – Ames Research Center and MIT, pgs. 1-26
ļ	C62	Colgate et al., "Implementation of Stiff Virtual Walls in Force-Reflecting Interfaces," Northwestern University, IL, 1993, pgs. 1-8
	C63	Hirota et al., "Development of Surface Display," IEEE 0-7803-1363-1, 1993, pgs. 256-262
	C64	Millman et al., "Design of a 4 Degree of Freedom Force-Reflecting Manipulandum with a Specified Force/Torque Workspace," IEEE CH2969-4, 1991, pgs 1488-1493
	C65	Rosenberg,, "Perceptual Design of a Virtual Rigid Surface Contact," Armstrong Laboratory AL/CF-TR-1995-0029, 1993, pgs. 1-45
	C66	Russo, "The Design & Implementation of a 3-Degree-of-Freedom Force Output Joystick," Dept. of Mech. Engineering, 1990, pgs. 1-42
	C67	Rosenberg, L., "Virtual Fixtures as Tools to Enhance Operator Performance in Telepresence Environments," SPIE Manipulator Technology, 1993, pgs. 1-12
_ /J⊔_	C68	Rosenberg et al., "Perceptual Decomposition of Virtual Haptic Surfaces," Proc. IEEE Symposium on Research Frontiers in Virtual Reality, 1993, pgs. 1-8

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		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
/JL/	C69	Yokokoji et al., "What you can see is what you can feel," IEEE-0-8186-7295-1, 1996, pgs. 46-54	
/JL/	C70	Kilpatric et al., "The Use of Kinesthetic Supplement in an Interactive Graphics System," University of North Carolina, 1976, pgs. 1-172	

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